

engineering data service

MECHANICAL DATA

Maximum Overall Length	2.38 Inches
Maximum Overall Diameter	1.01 Inches

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	1.95 μμf
Grid to Cathode	1.30 μμf
Plate to Cathode	.07 μμf

RATINGS

Heater Voltage (a c or d c)	6.3 Volts
Heater Current	400 Ma
Maximum Plate Dissipation	5.0 Watts
Maximum Seal Temperature	175° C
Maximum Plate Voltage	350 Volts
Maximum Operating Frequency	2900 Mc

CHARACTERISTICS

Conditions: (E_b = 180 volts d c, R_k = 400 ohms)

Transconductance	4500 μmhos
Amplification Factor	25
Plate Current	12.0 Ma

TYPICAL OPERATING CONDITIONS

UHF Oscillator, CW

Plate Voltage	180 Volts DC
Plate Current, R_g/I_b	25 Ma DC
Frequency	900-2900 Mc
Power Output	250 Mw Avg. Over the Band

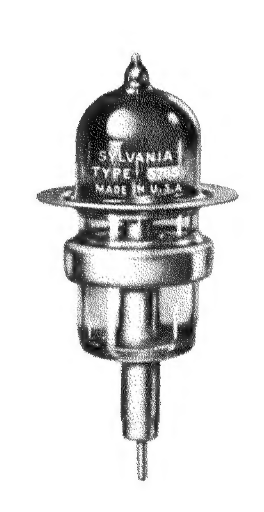
APPLICATION DATA

The Sylvania Type 5765 was designed for use as a cw oscillator at frequencies up to 2900 mc. The 5765 has a built-in internal feedback circuit between cathode and anode and fits into a concentric circuit. A small amount of adjustable, external feedback is generally necessary in order to obtain optimum power output at any given frequency. A feedback probe between the output and input lines may be used.

The Type 192 or 192A cavities as supplied by Amerac Inc., are recommended for the 5765.

QUICK REFERENCE DATA

The Sylvania Type 5765 is a UHF triode oscillator designed for service at frequencies up to 2900 mc. The 5765 has a built-in internal feedback circuit between cathode and anode and fits into a concentric line oscillator.



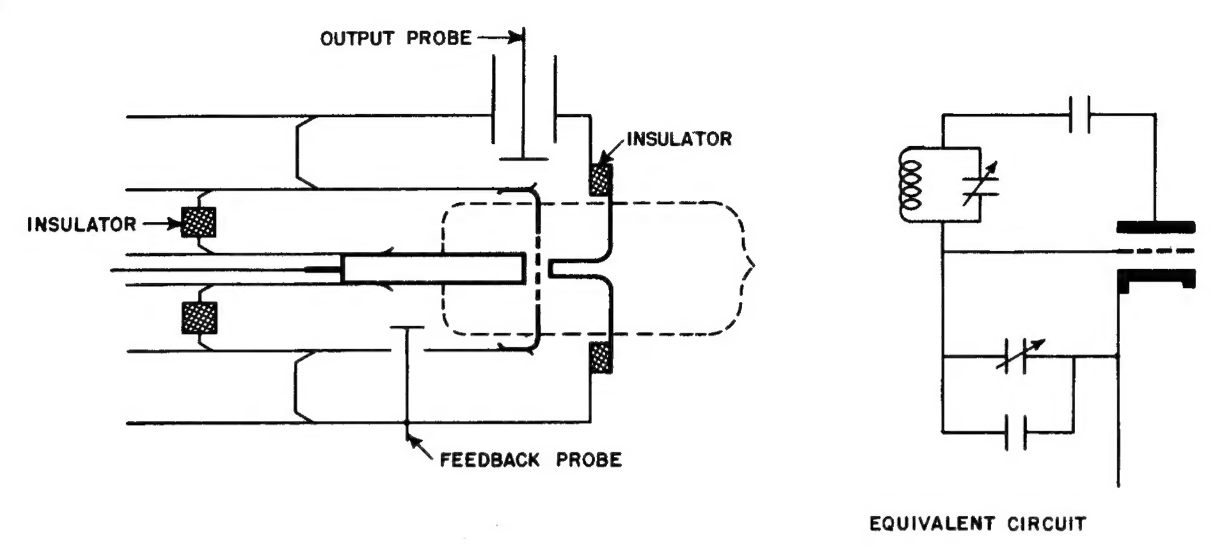
SYLVANIA ELECTRIC PRODUCTS INC.

ELECTRONICS DIVISION
WOBURN, MASS.

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APPLICATION DATA CONT'D



The Type 5765 in a typical quarter wave concentric line circuit. An external probe may be used to provide the feedback necessary for oscillation.

OUTLINE DRAWING

1.000 ±.005 DIA.
.660 DIA. MAX.
.330 MAX.
.900 MAX.
.080 MIN (NOTE 1)
.218 MAX. .209 MIN.
REFERENCE PLANE
.408 MAX.
.185 ±.005
.809 MAX.
1.132 MAX.
1.222 MAX. 1.206 MIN.
1.475 MAX. 1.423 MIN.
2 3/8 MAX.
.057 ±.010
.089 MIN. FLAT (NOTE 2)
.230 MIN. (NOTE 3)
.190 MIN. (NOTE 4)
.050 ±.003 DIA.
.202 ±.003 DIA.
.325 MAX
.650 DIA MAX
.750 +.000 −.010 DIA

DIAGRAM NOTES:

1. *Plate contact area.*
2. *Grid contact area.*
3. *Cathode and filament contact area.*
4. *Filament contact area.*